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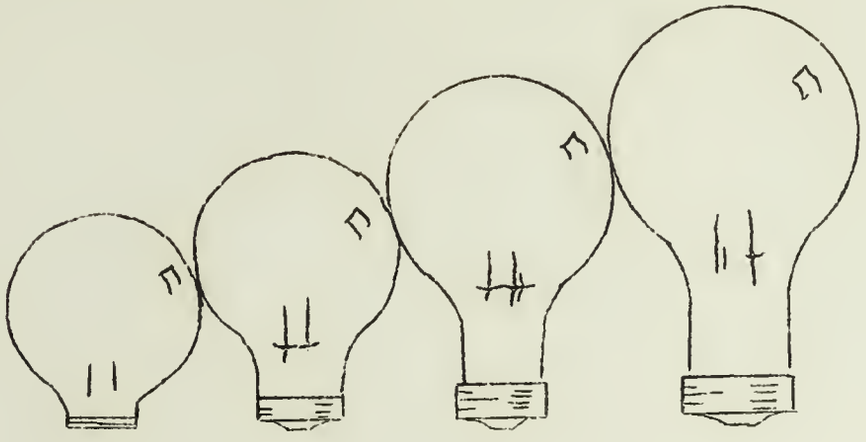
A SELECTED LIST OF REFERENCES ON ELECTRICITY IN THE FARM HOME



Prepared by
Mary Rokahr,
Extension Economist,
Home Management,
Extension Service.

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THE USE OF ELECTRICITY IN THE FARM HOME

Selected list of references compiled for the use of home-management specialists and home demonstration agents.

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Electric Stoves and Cooking

American Gas Association - Testing Laboratory. Investigation of domestic cooking by gas and by electricity. Amer. Gas Assoc. Bull. 6, 55 pp. illus. 1935. (1032 East 62d Street, Cleveland, Ohio.)
This is the third in a series of bulletins on domestic cooking by gas and electricity, and gives special consideration to a comparative study of operating costs. Some of the other items studied were speed in operation, quality of cooked products, convenience, and standards of performance.

Bainer, R., and Jorgenson, L. H. Electrical cooking in the farm home. Kans. State Coll. Ext. Bull. 66, 16pp. illus. 1930.
Points out the convenience, safety, and cleanliness of electric ranges, and gives directions for their economical operation.

Barager, A. E., and Snyder, E. B. Choosing and operating electric stoves. Nebr. Agr. Expt. Sta. Circ. 47, 22pp.illus. 1934.
This circular is based on Nebraska Station Research Bulletin 68.

Barager, A. E., and Snyder, E. B. A study of five commercial electric stoves. Nebr. Agr. Expt. Sta. Research Bull. 68, 62pp. illus. 1933.
A technical presentation. Popular presentation given in Nebraska Station Circular 47.

Beard, R., and Beall, T. Buy your electric range with dollars and sense. Ohio Agr. Coll. Ext. Bull. 167, 8 pp. 1935.
Enumerates the points that should be considered in the selection of an electric range.

Rapp, M. Fuels used for cooking purposes in Indiana rural homes. Ind. Agr. Expt. Sta. Bull. 339, 32 pp. illus. 1930.
A study of returns (questionnaire) received from 1,403 rural homemakers indicated that coal, wood, and kerosene were the principal fuels used for cooking purposes in Indiana rural homes. A small percentage of these rural homemakers reported using gas, electricity, or acetylene for cooking purposes. The percentage of homes using these fuels during summer months was as follows: 23 percent used gas, 3.2 percent used electricity, and 1.4 percent used acetylene.

Roberts, E. H. Utensils for the electric range. Wash. Agr. Expt. Sta. Bull. 283, 20 pp. illus. 1933.
This bulletin gives the general and a few specific conclusions reached in an investigation of the relative efficiency of various types of surface units for an electric stove and of utensils of various sizes, shapes, and materials used for surface and oven cooking. Tests were made of 8 utensils of aluminum, 10 of enamel ware, 2 of stainless steel, 4 of copper, 1 iron Dutch oven, and 1 glass utensil.

Smith, L. A study of factors of economy in electrical cooking of a typical day's meals in Maine. Maine Agr. Expt. Sta. Bull. 371, 87 pp. illus. 1934.
The electric apparatus considered are electric range, electric toasters, and electric percolators. Experiments also carried on with various types of cooking utensils.

Swartz, V. W. Baking vegetables electrically. Wash. Agr. Expt. Sta. Bull. 251, 20 pp. illus. 1931.
Recommendations based upon performance tests summarized in tabular form are given concerning the selection of an electrical oven and oven utensils.

Lighting

Fenton, F. C., and Hunt, O. D. Farm lighting. Kans. State Coll. Ext. Bull. 64, 17 pp. illus. 1929.
Fundamentals of good lighting considered.

Logan, C. A. Farm lighting systems. Kans. State Coll. Engin. Expt. Sta. Bull. 30, 58 pp. illus. 1932.
Describes and gives cost of operating the individual farm electrical plant. Reports also the experience of farmers operating engine-driven plants and wind electric plants. Lighting by means of acetylene, kerosene, and gasoline lamps discussed. The use of natural gas and bottled gas also considered.

Wright, F. E. Home and school lighting. 23 pp. illus. Ithaca, N. Y., Cornell Univ., Coll. Home Economics. [1936]
Compilation of information from various authorities on lighting for health and efficiency. This pamphlet was used in connection with an exhibit displayed during farmers' week.

Refrigerators

Ackerman, W. T. Electric household refrigeration. N. H. Agr. Expt. Sta. Bull. 244, 23 pp. illus. 1929.
A study of electric refrigeration in six farm homes.

Beard, R., and Beall, T. Buy your automatic refrigerator with dollars and sense. Ohio Agr. Coll. Ext. Bull. 166, 8 pp. 1935.
Gives suggestions for the purchase of a refrigerator.

Danner, B. G. Cold facts. Ga. State Coll. Agr. Ext. Bull. v. 21, no. 433, 23 pp. illus. 1933.
Describes the installation and use of the electric refrigerator and gives data on cost of operating. Recipes for refrigerator desserts are included.

Hull, H. B. Household refrigeration. 4th ed. completely rev. and enl. 690 pp. illus. Chicago, Nickerson & Collins Co. 1933.
Technical treatise on principles, types, construction, and operation of refrigerators.

Kuschke, B. M., and Whittemore, M. Home-refrigeration methods in rural Rhode Island. R. I. Agr. Expt. Sta. Bull. 239, 19 pp. 1933.
The results of a survey of the types and efficiencies of refrigeration methods used in rural Rhode Island, together with the results of laboratory tests of different types of new refrigerators.

Lewis, E. B., and Brunig, M. P. Fitting the mechanical refrigerator into the home. Nebr. Agr. Expt. Sta. Circ. 45, 11 pp. illus. 1933.
Directions given for the proper installation of refrigerators.

President's Conference on Home Building and Home Ownership, 1931.
House design, construction and equipment; reports: ed. by John M. Gries and James Ford. (Publication no. 5.) 325 pp. illus. Washington, D. C., Conf. on Home Building and Home Ownership [1932]
"Refrigeration", by Louise Stanley [and others] pp. 276-309. Discusses temperature requirements, present home-storage practices, types of equipment, standards, and management of modern refrigerators.

Stanley, L., and Cline, J. A. Ice cream frozen without stirring. U. S. Dept. Agr. Leaflet 49, rev. ed., 8 pp. illus. 1930.
Gives directions and recipes for refrigerator desserts.

United States Department of Agriculture, Bureau of Home Economics. Household refrigeration: a partial list of references. U. S. Dept. Agr., Bur. Home Econ. Bibliog. 5, 33 pp. 1933. Mimeographed.

Washing Machines

Ackerman, W. T. Electric laundry equipment on the farm. N. H. Agr. Expt. Sta. Circ. 34, 15 pp. illus. 1930.
Gives data on the electric laundry equipment on the seven experimental farms of the New Hampshire rural-electrification projects.

Roberts, E. H. The efficiency of the home-laundry plant. Wash. Agr. Expt. Sta. Bull. 248, 39 pp. 1931.
"This bulletin describes the ideal home-laundry plant in terms of the requirements for the two principal processes, washing and ironing, and discusses the cost of operation of such a plant in comparison with sending the family washing to a power laundry."

Sater, V. E. Time and cost evaluation of home laundering. Wash. Agr. Expt. Sta. Bull. 317, 26 pp. 1935.
This discussion of the home-laundering problem from the standpoint of time, energy, and financial costs for the housewife when using different kinds of equipment, old-fashioned and modern, and available commercial services offered by power laundries, is based chiefly upon [published material] from various sources including earlier reports from the Washington station.

Snyder, E. B., and Brunig, M. P. Study of washing machines. Nebr. Agr. Expt. Sta. Res. Bull. 56, 44 pp. 1931.
A study of eight machines; four of the gyrator type, two of the dolly type, one of the cylinder type, and one of the vacuum type.

Air Conditioning

Dana, H. J., and Lyle, R. E. Studies of summer air conditioning for domestic comfort at Grand Coulee dam site. Wash. Engin. Expt. Sta. Bull. 48, 20 pp. illus. 1935.
Study made to determine the possibility of domestic air-conditioning in the region to be supplied with power from the Grand Coulee dam when it is completed. Two houses in Mason City were equipped for summer air-conditioning tests during 1935. Both were single-story structures with low composition roofs and with ventilating louvers in the gables which were kept open during the summer. With prevailing rates for electricity it is estimated that the operating cost for a typical domestic cooling system for the summer would range from $11 to $25 spread over a period of 5 months.

Kratz, A. P. Humidification for residences. Ill. Univ. Engin. Expt. Sta. Bull. 230, 30 pp. illus. 1931.
This bulletin brings together certain useful information on the subject [from various sources] and presents the results of laboratory experiments. Obtainable by purchase from the Engineering Experiment Station, Urbana, Ill. 20 cents.

Woods, B. M., and Raber, B. F. Air conditioning for California homes. Calif. Agr. Expt. Sta. Bull. 589, 45 pp. illus. 1935.
An informative bulletin on methods of air conditioning in rural homes. Initial costs and estimation of operating costs of various types of equipment is included.

General

Farm home electrification, Parts 1-7 [in six volumes] A guide to the study of farm-home electrification. Prepared by a committee from the American Home Economics Association, Miss M. Attie Souder, chairman. Issued by Committee on the Relation of Electricity to Agriculture, 1116 Garland Building, Chicago, Ill. 1931. Supply of this publication is exhausted.
Contents: Part I, Factors affecting probable development of farm-home electrification in a community; Part II, Common electrical terms; Parts III-IV, Planning the wiring of the house [and] Lighting standards for comfort and beauty; Part V, Selection, operation, and care of electrical appliances and equipment (heating appliances only); Part VI, Simple household electrical repairs; Part VII, Electrical safety in the home.

Graf, D. W. Electricity on the farm; a partial list of references 1920-1934. U. S. Dept. Agr., Bur. Engin., 110 pp. 1935. Mimeographed.
Electricity for the household, pp. 18-20, 28-29.

Peet, L. J., and Sater, L. E. Household equipment. 315 pp. illus. New York, John Wiley and Sons, 1934.
Popular and technical information is given on the subject. Chapters are included on kitchens; materials used in household equipment; fundamentals of electricity; fuels; the electric range; gas; the gas range; coal, gasoline, and kerosene ranges; small equipment, electrical; small equipment, nonelectrical; refrigeration; laundry procedure; electrical cleaning equipment; home lighting; home plumbing; and heating and ventilating.

Schaenzer, J. P. Rural electrification. 266 pp. illus. New York, Milwaukee, Chicago, Bruce Publishing Co. [c1935]
Prepared for use of vocational-agriculture teachers. The following chapters are of special interest to the homemaker: Electricity, the silent partner; How electricity is made and distributed; Serving the farm customer; Wiring the home; Fractional horse-power motor application; Farm water supply; Laundry and cleaning equipment; and kitchen and household equipment.

Wright, F. B. Electricity in the home and on the farm. 320 pp. illus. New York, John Wiley & Sons, Inc.; London, Chapman & Hill, Ltd., 1935.
Written for those who wish to gain a practical knowledge of electricity and its applications in the home and on the farm.

State station and extension publications.

Blauser, I. P. Electrical service for Ohio farms, now available through R.E.A. Ohio Agr. Coll. Ext. Bull. 165, 11 pp. 1935.
The amount of electricity in kilowatt hours given for common pieces of equipment.

Brackett, E. E., and Lewis, E. B. Use of electricity on Nebraska Farms, 1920-1934. Nebr. Agr. Expt. Sta. Bull. 289, 47 pp. illus. 1934.
The items of special interest to the homemaker discussed in this bulletin are: Electrical refrigeration in rural homes, pumping water electrically, electricity in the laundry, radio on the farm, cooking with electricity, and heating water electrically.

Colby, H. N. Burglar proofing the farm. N. H. Univ. [Agr.] Ext. Circ. 171, 15 pp. illus. 1935.
Gives directions for installing burglar alarms.

Gallagher, H. J. Farm electricity for 4-H clubs. Mich. State Coll. Ext. Club Bull. 25, 27 pp. illus. 1933.
A wiring project for club members between the ages of 15 and 20 years.

Kable, G. W. Your small motor; how to increase its usefulness. Md. Univ. [Agr.] Ext. Circ. 105, 4 pp. illus. 1934.

Kelsey, L. D., and Riley, H. W. How to get electricity on the farm. N. Y. Agr. Coll. (Cornell) Ext. Bull. 339, 11 pp. illus. 1935.
"The primary purpose of this bulletin is to give a general description of the terms and conditions under which rural electric service from utility companies is made available and to show what steps should be taken by individuals and groups to get the service."

Kloeffler, R. G., Brenneman, J. L., and Hunt, O. D. A low-cost electrical system for farms. Kans. State Coll. Agr. Ext. Circ. 117, 16 pp. illus. 1935.
Directions for wiring house are given; also description as well as cost of operating engine-driven generating plant.

Krewatch, A. V. Electric equipment in the home; its care and repair. Md. Univ. [Agr.] Ext. Bull. 76, 23 pp. illus. 1936.

McCuen, G. W., and Blauser, I. P. Using electricity on Ohio farms. Ohio Agr. Coll. Ext. Bull. 96, rev., 31 pp. illus. 1934.
Household use of electricity on 13 farms is for the following: Lighting, washing, cooking, ironing, cleaning, and refrigeration.

Monroe, M. M. A primer of electricity and heat. Maine Agr. Expt. Sta. Bull. 376, 321 pp. illus. 1934.
"This bulletin has been written to give the purchaser and user of electrical heating equipment an elementary understanding of the principles of the transportation of electrical power and its conversion into heat, and of heat

transfer as an aid to wise choice and economical operation of such equipment."

Redfield, G. M. Care and operation of electric household equipment. Purdue Univ. Agr. Ext. Leaflet 187, 6 pp. illus. 1933.
Directions given for the care and operation of the following: Washing machines, irons, mangles, vacuum cleaners, and electric ranges.

Redfield, G. M., and Hienton, T. E. Electricity serves the farm household. Ind. Agr. Expt. Sta. Circ. 214, 12 pp. illus. 1936.
Discusses the advantage of electricity and gives data on current consumption of electricity for household use on Indiana farms.

Reference Sources

Periodicals.

Electric Refrigeration News. (Weekly.) Business News Pub. Co., 5229 Cass Ave., Detroit, Mich.
Business newspaper of the electric refrigeration industry, especially household refrigeration. Includes air conditioning.

Journal of Home Economics. (Monthly.) Mills Building, Washington, D. C.
Official organ of the American Home Economics Association. Publishes abstracts, reviews, and occasional articles on household refrigeration.

Indexes to be consulted in libraries.

Experiment Station Record. Issued by the Office of Experiment Stations, U. S. Department of Agriculture, Washington, D. C.
An abstract journal of scientific and technical literature in the field of agriculture and its allied sciences. Excellent source for the results of experimental work carried on at the agricultural experiment stations.

Agricultural Index. Begun in 1916. Issued by the H. W. Wilson Co., New York.
Indexes over 125 agricultural periodicals, and includes references to agricultural books, also agricultural bulletins, pamphlets, and reports.

Industrial Arts Index. Begun in 1913. Issued by the H. W. Wilson Co., New York.
Indexes annually over 200 engineering, trade, and business periodicals. Also lists about 3,000 books and pamphlets each year.